

## ABSTRACT

Systems, apparatus and methods are provided for bridging data to and from different communication physical layers and protocols. The present invention comprises a communication system structured to “bridge” between conventional, narrowband carrier wave  
5 communication technology and ultra-wideband communication technology. The present invention may be used in wireless and wire communication networks such as hybrid fiber-coax networks. This Abstract is provided for the sole purpose of complying with the Abstract requirement rules that allow a reader to quickly ascertain the subject matter of the disclosure contained herein. This Abstract is submitted with the explicit understanding that it will not be  
10 used to interpret or to limit the scope or the meaning of the claims.